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QUESTION PAPER CLERK (IT) 2022

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1. ਸੁੱਧ ਸ਼ਬਦ-ਜੋੜ ਕਿਹੜਾ ਹੈ?

(a) ਗਜਲ

(b) ਗਜਲ

(c) ਗਜਲ

(d) ਗਜਲ

2. ਦੁਆਬੀਆ ਸ਼ਬਦ ਵਿਚ ਪਿਛੇਤਰ ਹੈ:

(a) ਆਬੀਆ

(b) ਬੀਆ

(c) ਈਆ

(d) ਆ

3. ਹੇਠ ਲਿਖਿਆਂ ਵਿਚੋਂ ਪਦਾਰਥਵਾਚਕ/ਵਸਤੂਵਾਚਕ ਨਾਂਵ ਹੈ

(a) ਦੁੱਧ

(b) ਸ਼੍ਰੇਣੀ

(c) ਗਾਂ

(d) ਧਰਤੀ

4. ਜਿਸ ਕਿਰਿਆ ਦਾ ਕਰਤਾ ਕੰਮ ਨੂੰ ਆਪ ਨਾ ਕਰੇ ਸਗੋਂ ਕਿਸੇ ਦੂਜੇ ਕੋਲੋਂ ਕਰਵਾਏ, ਉਹ ਕਿਹੜੀ ਕਿਰਿਆ ਹੁੰਦੀ ਹੈ

(a) ਅਕਰਮਕ ਕਿਰਿਆ

(b) ਪ੍ਰੇਰਨਾਰਥਕ ਕਿਰਿਆ

(c) ਸਕਰਮਕ ਕਿਰਿਆ

(d) ਸੰਜੁਗਤ ਕਿਰਿਆ

5. ਅੰਗਰੇਜ਼ੀ ਸ਼ਬਦ 'ਢਲਿਣ' ਦਾ ਪੰਜਾਬੀ ਸਮਾਨਾਰਥਕ ਸ਼ਬਦ ਕਿਹੜਾ ਹੈ?

(a) ਲੇਖੇ ਦੀ ਮੱਦ

(b) ਪੁਸਤਿਕਾ

(c) ਸੂਚਨਾ ਹਿੱਤ

(d) ਮਿਸਲ

6. Note: Give the right option for each of the following

"To be in the running" means _____

(a) to be escaping from the law

(b) to be in a good position to achieve something

(c) to be included in an athletics team

(d) to be in a very difficult situation

7. The correct synonym for "fiendish" would be _____

(a) comical

(b) friendly

(c) savage

(d) supportive

8. We are trying to make sure that the work is shared _____ equally.

(a) in

(b) off

(c) out

(d) with

9. The meaning of the word "placid" is

(a) local

(b) distant

(c) angry

(d) calm

10. You should praise her only when she deserves it. Which part of speech is the word "only" in this sentence?

(a) adjective

(b) adverb

(c) preposition

(d) conjunction





11. Complete the series: 4, 23, 60, 121, _

(a) 200

(b) 212

(c) 216

(d) 210

12. What comes next in the series: 165, 195, 255, 285, 345, ?

(a) 335

(b) 225

(c) 525

(d) 435

13. In a certain code, GATHER is written as EGRJCT, how is PAROLE written in that code?

(a) NCQPGJ

(b) NCPQJG

(c) JGPQNC

(d) JGQPCN

14. In a certain code language, SWIFT is written as RUFBO. How would MMXQG be written in that code?

(a) LKUMB

(b) LBUMK

(c) MLVNC

(d) KJTLA

15. One day, Raman left home and cycled 10 km southwards, turned right and cycled 5 km. Next, he turned right and cycled 10 km. He then turned left and cycled 10 km. How many kms will he have to cycle to reach his home straight ?

(a) 15 km

(c) 10 km

(b) 15 km

(d) 35 km

16. W and X are brothers. Y and Z are sisters. W's son is Z's brother. How is X related to Y ?

(a) Father

(b) Brother

(c) Uncle

(d) Grandfather

17. Motorcycle is related to Battery in the same way as Life is related to

(a) Moon

(b) Man

(c) Sun

(d) Earth

18. Choose the word which is least like the other words in the group

(a) Cap

(b) Turban

(c) Helmet

(d) Veil

19. T, U, V, W, X, Y and Z are sitting around a circle and are facing the centre. Z is second to the left of V, who is to the immediate left of Y. T is third to the left of X. U is between W and X. Which of the following is the position of Y ?

(a) Fourth to the right of W

(b) To the immediate right of T

(c) To the immediate left of V

(d) Between T and V

20. In a certain code language, '617' means 'sweet and cold'. '735' means 'Lassi is sweet' and '263' means 'coffee is cold'. Which of the following would mean "lassi is cold"?

(a) 713

(b) 536

(c) 753

(d) 673

21. Durgabai Deshmukh was associated with which of the following?

(a) Maharashtra Mahila Sabha

(b) Andhra Mahila Sabha

(c) Bihar Mahila Sabha

(d) Kerala Mahila Sabha





22. Which famous female nationalist leader was part of the Dandi March by Mahatma Gandhi ?
(a) Sucheta Kriplani (b) Sarojini Naidu (c) Indira Gandhi (d) Kasturba Gandhi
23. Who was the president of the famous Gaya Session of Congress held in 1922 ?
(a) Jawaharlal Nehru (b) Rajendra Prasad (c) Motilal Nehru (d) Chitranjan Das
24. What was famously called the "Poor man's Struggle" by Mahatma Gandhi ?
(a) Dandi March (b) Non Cooperation Movement
(c) Civil Disobedience Movement (d) Round Table Conference
25. Who among the following was the first Muslim president of INC ?
(a) Mohammad Ali Jinnah (b) Saifuddin Kichlew
(c) Badruddin Tyabji (d) Aga Khan
26. Which of the following trophies is not related to Cricket in India?
(a) Deodhar Trophy (b) Irani Cup
(c) Ranji Trophy (d) Santosh Trophy
27. The Super Seven medals had been won by India at the Tokyo Olympics in which order:
(a) 2 Gold 2 Silver 3 Bronze (b) 1 Gold 2 silver 4 bronze
(c) 3 gold 2 silver 2 bronze (d) 1 gold 3 silver 3 bronze
28. The highest number of medals were won by which country at the Commonwealth Games 2022 ?
(a) India (b) China (c) Australia (d) USA
29. Who among the following is not associated with football in India?
(a) Manisha Kalyan (b) Sanju Yadav (c) Bala Devi (d) Smriti Mandhana
30. The term Putting is associated with which game?
(a) Hockey (b) Football (c) Chess (d) Golf
31. Which of the following is used in EBCDIC?
(a) Super Computers (b) Main Frames
(c) Machine Codes (d) Programming
32. Which of the following defines the assigned ordering among the characters used by the Computer ?
(a) Accumilation (b) Sorting
(c) Collating Sequence (d) Unicode





33. What is the port number of PoP ?

- (a) 35 (b) 43 (c) 110 (d) 85

34. Which of the following layer isn't present in the TCP/IP model but is included in the OSI model ?

- (a) Network Layer (b) Session Layer (c) Application Layer (d) Transport Layer

35. Which of the following is known as a set of entities of the same type that share same Properties or attributes ?

- (a) Relation set (b) Tuples (c) Entity set (d) Entity Relation model

36. _____ is a set of one or more attributes taken collectively to uniquely identify a record.

- (a) Primary key (b) Foreign key (c) Super key (d) Candidate key

37. Which of the following is not an IoT platform?

- (a) Amazon Web Services (b) Microsoft Azure
(c) Salesforce (d) Flipkart

38. Which of the following protocol is used to link all the devices in the IoT?

- (a) HTTP (b) UDP (c) Network (d) TCP/IP

39. Which of the below is not a part of the Test Plan?

- (a) Schedule (b) Risk (c) Incident Report (d) Entry & Exit Criteria

40. The basic web services platform is a combination of _____ and _____

- (a) CSS + HTTP (b) XML + HTML (c) XML + HTTP (d) CSS + JAVA

41. Which of the following is not a type of database?

- (a) Hierarchical (b) Network (c) Distributed (d) Decentralized

42. Which of the following is generally used for performing tasks like creating the structure of the relations, deleting relation ?

- (a) DML (Data Manipulation Language) (b) Query
(c) Relational Schema (d) DDL(Data Definition Language)

43. The values appearing in given attributes of any tuple in the referencing relation must likewise occur in specified attributes of at least one tuple in the referenced relation, according to _____ integrity constraint.

- (a) Referential (b) Primary (c) Referencing (d) Specific





44. Which command is used to remove a relation from an SQL ?

- (a) Drop table (b) delete (c) Purge (d) Remove

45. What is the function of the following command ?

Delete from r where P

- (a) Clears entries from relation (b) Deletes relation
(c) Deletes particular tuple from relation (d) All of the above

46. A major goal of the database system is to minimize the number of block transfers between the disk and memory, Which of the following helps in achieving this goal ?

- (a) Secondary storage (b) Storage
(c) Catalog (d) Buffer

47. In the following Query, which of the following can be placed in the Query's blank portion to display the salary from highest to lowest amount, and sorting the employees name alphabetically?

SELECT *
FROM instructor
ORDER BY salary _____, name _____;

- (a) Ascending, Descending (b) Asc, Desc
(c) Desc, Asc (d) All of the above

48. Which of the following refers to the number of tuples in a relation ?

- (a) Entity (b) Column (c) Cardinality (d) None of the above

49. Consider a relation R(A, B, C, D, E) with the following functional dependencies:

ABC -> DE

D-> AB

The number of super keys of R is

- (a) 2 (b) 7 (c) 10 (d) 12

50. The property of a transaction that persists all the crashes is

- (a) Atomicity (b) Durability (c) Isolation (d) All of the above

51. Which of the following protocols ensures conflict serializability and safety from deadlocks ?

- (a) Two-phase locking protocol (b) Time-stamp ordering protocol
(c) Graph based protocol (d) None of the above





52. The length of an IPv6 address is
(a) 32 bits (b) 64 bits (c) 128 bits (d) 256 bits
53. Which of the following IP address belongs class A ?
(a) 121.12.12.248 (b) 130.12.12.248 (c) 128.12.12.248 (d) 129.12.12.248
54. Which of the following IP addresses can be used as loop-back addresses?
(a) 0.0.0.0 (b) 127.0.0.1 (c) 255.255.255.255 (d) 0.255.255.255
55. The correct order of corresponding OSI layers for having functionalities of routing and reconciling machine representation differences with shared access resolution and ASCII test protocol is ?
(a) Network, Physical, Transport, Data
(b) Network, Physical, Data link, Application
(c) Network, Presentation, Data link, Application
(d) Network, Presentation, Physical, Transport
56. Which of the following tasks is not done by the data link layer?
(a) framing (b) error control (c) flow control (d) channel coding
57. Which of the following is the multiple access protocol for channel access control?
(a) CSMA/CD (b) CSMA/CA
(c) Both CSMA/CD & CSMA/CA (d) HDLC
58. The technique of temporarily delaying outgoing acknowledgements so that they can be hooked onto the next outgoing data frame is called _____.
(a) piggybacking (b) cyclic redundancy check
(c) fletcher's checksum (d) parity check
59. ICMP is primarily used for _____.
(a) error and diagnostic functions
(b) addressing
(c) forwarding
(d) routing
60. User diagram protocol is called connectionless because _____.
(a) all UDP packets are treated independently by transport layer
(b) it sends data as a stream of related packets
(c) it is received in the same order as sent
(d) it sends data very quickly





61. Which of the following delay is faced by the packet in travelling from one end system to another ?

- (a) Propagation delay
- (b) Queuing delay
- (c) Transmission delay
- (d) All of the above

62. The default connection type used by HTTP is _____

- (a) Persistent
- (b) non-Persistent
- (c) Can be either persistent or non-persistent depending on connection
- (d) None of the mentioned

63. To access the services of the operating system, the interface is provided by the _____

- (a) Library
- (b) System calls
- (c) Assembly instructions
- (d) API

64. Which one of the following is not true?

- (a) kernel remains in the memory during the entire computer session
- (b) kernel is made of various modules which can not be loaded in running operating system
- (c) kernel is the first part of the operating system to load into memory during booting
- (d) kernel is the program that constitutes the central core of the operating system

65. In a timeshare operating System, when time slot assigned to a process is completed, the process switches from the current state to ?

- (a) Suspended state
- (b) Run state
- (c) Ready state
- (d) Terminate state

66. For an effective operating system, when to check for deadlock ?

- (a) every time a resource request is made at fixed time intervals
- (b) at fixed time intervals
- (c) every time a resource request is made
- (d) none of the above

67. The operating system maintains a _____ table that keeps track of how many frames have been allocated, how many are there, and how many are available.

- (a) memory
- (b) mapping
- (c) page
- (d) frame

68. On systems where there are multiple operating System, the decision to load a particular one is done by





(a) process control block
(c) boot loader

(b) file control block
(d) bootstrap

69. In Unix, which system call creates the new process?

(a) Create
(c) new
(b) fork
(d) none of the mentioned

70. The interval from the time of submission of a process to the time of completion is termed as _____

(a) waiting time
(c) response time
(b) turnaround time
(d) throughput

71. Which scheduling algorithm is defined in Time quantum ?

(a) shortest job scheduling algorithm
(c) priority scheduling algorithm
(b) round robin scheduling algorithm
(d) multilevel queue scheduling algorithm

72. Banker's algorithm is used ?

(a) To prevent deadlock
(c) To solve the deadlock
(b) To deadlock recovery
(d) None of these

73. The time taken to move the disk arm to desired cylinder is called the _____

(a) positioning time
(c) seek time
(b) random access time
(d) rotational latency

74. In the _____ algorithm, the disk arm starts at one end of the disk and moves toward the other end, servicing requests till the other end of the disk. At the other end, the direction is reversed and servicing continues.

(a) LOOK
(b) SCAN
(c) C-SCAN
(d) C-LOOK

75. Which one of the following is not a secondary storage?

(a) Magnetic disks
(c) RAM
(b) Magnetic tapes
(d) None of the mentioned

76. RAID level I refers to

(a) disk arrays with striping
(c) both disk arrays with striping and disk mirroring
(b) disk mirroring
(d) None of the mentioned

77. Which of the following commands is used to save any transaction permanently into the database ?

(a) commit
(b) Rollback
(c) Savepoint
(d) None of the above





78. Which one of the following statements about normal forms is FALSE ?

- (a) BCNF is stricter than 3 NF
- (b) Lossless, dependency preserving decomposition into 3 NF is always possible
- (c) Lossless, dependency preserving decomposition into BCNF is always possible
- (d) Any relation with two attributes is BCNF

79. What address identifies a process on a host ?

- (a) Physical address (MAC)
- (b) Logical address (IP)
- (c) Port address
- (d) Specific address

80. Decryption and Encryption of data are the responsibility of which of the following layer?

- (a) Session layer
- (b) Network layer
- (c) Transport layer
- (d) Presentation layer

81. How many bits are needed to store one BCD digit ?

- (a) 2 bits
- (b) 4 bits
- (c) 3 bits
- (d) 1 bit

82. Which of these sets of logic gates are known as universal gates?

- (a) XOR, NAND, OR
- (b) OR, NOT, XOR
- (c) NOR, NAND, XNOR
- (d) NOR, NAND

83. In the toggle mode, a JK flip-flop has

- (a) $J = 0, K = 1$
- (b) $J = 1, K = 1$
- (c) $J = 0, K = 0$
- (d) $J = 1, K = 0$

84. 2's complement of 1011011 is

- (a) 0100011
- (b) 0110101
- (c) 0100011
- (d) 0100101

85. A digital circuit that can store only one bit is a

- (a) Register
- (b) NOR gate
- (c) Flip-flop
- (d) XOR gate

86. DeMorgan's Law state that

- (a) $(A+B)' = A' * B$
- (b) $(AB)' = A' + B'$
- (c) $(AB)' = A' + B$
- (d) $(AB)' = A + B$

87. The Minterms for four variables

- (a) 8
- (b) 16
- (c) 2
- (d) 1

88. The result " $X + XY = X$ " follows which of these laws ?

- (a) Consensus law
- (b) Distributive law
- (c) Duality law
- (d) Absorption law

89. The largest two digits hexadecimal number is

- (a) $(FE)_{16}$
- (b) $(FD)_{16}$
- (c) $(FF)_{16}$
- (d) $(EF)_{16}$





90. The prime implicant which has at least one element that is not present in any other implicant is known as _____

- (a) Essential Prime Implicant
- (b) Implicant
- (c) Complement
- (d) Prime Complement

91. Which one of the following is not the application of the stack data structure ?

- (a) String reversal
- (b) Recursion
- (c) Backtracking
- (d) Asynchronous data transfer

92. Which data structure is required to convert the infix to prefix notation?

- (a) Stack
- (b) Linked List
- (c) Binary Tree
- (d) Queue

93. Which of the following is the prefix form of $A+B*C$?

- (a) $A+(BC^*)$
- (b) $+AB*C$
- (c) $ABC+^*$
- (d) $+A*BC$

94. If the elements '1', '2', '3' and '4' are added in a stack, what would be the order for the removal?

- (a) 1234
- (b) 2134
- (c) 4321
- (d) None of above

95. Which one of the following is the overflow condition if the linear queue is implemented using an array with a size MAX_SIZE ?

- (a) $\text{rear} = \text{front}$
- (b) $\text{rear} = \text{front} + 1$
- (c) $\text{rear} = \text{MAX_SIZE} - 1$
- (d) $\text{rear} = \text{MAX_SIZE}$

96. The time complexity of enqueue operation in Queue is _____

- (a) $O(1)$
- (b) $O(n)$
- (c) $O(\log n)$
- (d) $O(n \log n)$

97. Which of the following properties are obeyed by all three tree – traversals ?

- (a) Left subtrees are visited before right subtrees
- (b) Right subtrees are visited before left subtrees
- (c) Root node is visited before left subtree
- (d) Root node is visited before right subtree

98. The number of elements in the adjacency matrix of a graph having 7 vertices is _____

- (a) 7
- (b) 14
- (c) 36
- (d) 49

99. In a max-heap, the element with the greatest key is always in the which node?

- (a) Leaf node
- (b) First node of left sub tree
- (c) Root node
- (d) First node of right sub tree





100. Which of the following is false about a binary search tree?

- (a) The left child is always lesser than its parent
- (b) The right child is always greater than its parent
- (c) The left and right sub trees should also be binary search trees
- (d) In order sequence gives decreasing order of elements

101. Which of the following service allows a user to log in to another computer somewhere on the internet ?

- (a) e-mail
- (b) UseNet
- (c) Telnet
- (d) FTP

102. Which of the following is the smallest unit of data in a computer ?

- (a) Bit
- (b) KB
- (c) Nibble
- (d) Byte

103. The 'heart' of the processor which performs many different operations _____

- (a) Arithmetic and Logic unit
- (b) Motherboard
- (c) Control Unit
- (d) Memory

104. Which one of the following groups contains graphical file extensions?

- (a) JPG, CPX, GCM
- (b) GIF, TCE, WMF
- (c) TCP, JPG, BMP
- (d) JPG, GIF, BMP

105. Which of the following values is the correct value of this hexadecimal code ABCDEF ?

- (a) 11259375
- (b) 11259379
- (c) 11259312
- (d) 11257593

106. The speed of a modern printer is generally measured in

- (a) LPS
- (b) MMS
- (c) PPS
- (d) DPI

107. In which of the following computer-generation vacuum tubes were used?

- (a) First generation
- (b) Second generation
- (c) Third generation
- (d) Fourth generation

108. Which of the following address is generated by CPU ?

- (a) Logical address
- (b) Physical address
- (c) Actual address
- (d) Simple address

109. What is the output of this statement "printf("%d", (a++))" ?

- (a) The value of (a+1)
- (b) The current value of a
- (c) Error message
- (d) Garbage

110. Which is a valid C expression ?

- (a) int my_num = 100,000;
- (b) int my_num = 100000;
- (c) int my num = 1000;
- (d) int \$my_num = 10000;





111. What is #include <stdio.h>?

- (a) Preprocessor directive
- (b) Inclusive directive
- (c) File inclusion directive
- (d) None of the mentioned

112. What will be the output of the following C code?

```
1. #include <stdio.h>
2. int main()
3. {
4.     int y = 10000;
5.     Int y = 34;
6.     printf("Hello World! %d\n", y);
7.     return 0;
8. }
```

- (a) Compile time error
- (b) Hello World! 34
- (c) Hello World! 1000
- (d) Hello World! Followed by a junk value

113. What is the final value of x in the following C code ?

```
1. #include <stdio.h>
2. void main()
3. {
4.     int x = 5 * 9 / 3 + 9;
5. }
```

- (a) 3.75
- (b) Depends on compiler
- (c) 24
- (d) 3

114. What will be the output of the following C code?

```
1. #include <stdio.h>
2. void main()
3. {
4.     double k = 0;
5.     for (k = 0.0; k<3.0; k++)
6.         printf("Hello");
7. }
```

- (a) Run time error
- (b) Hello is printed thrice
- (c) Hello is printed twice
- (d) Hello is printed infinitely

115. Which one of the following is a loop construct that will always be executed once?

- (a) for
- (b) while
- (c) switch
- (d) do while





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116. What is the correct syntax of doctype in HTML5 ?

- (a) </doctype html> (b) <doctype html> (c) <doctype html!> (d) <!doctype html>

117. Which of the following tag is used for inserting the largest heading in HTML?

- (a) head (b) <h1> (c) <h6> (d) heading

118. Which HTML tag is used to insert an image ?

- (a) (b)
(c) (d)

119. Which of the following tag is used to make the underlined text?

- (a) <i> (b) (c) <u> (d) <pre>

120. Which data structure is the best for implementing a priority queue?

- (a) Stack (b) Linked list (c) Array (d) Heap

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ANSWER KEYS

Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans	Q.No.	Ans
1.	D	25.	C	49.	C	73.	C	97.	A
2.	C	26.	D	50.	B	74.	B	98.	D
3.	A	27.	B	51.	B	75.	C	99.	C
4.	B	28.	C	52.	C	76.	C	100.	D
5.	D	29.	D	53.	A	77.	A	101.	C
6.	B	30.	D	54.	B	78.	C	102.	A
7.	C	31.	B	55.	C	79.	C	103.	A
8.	C	32.	C	56.	D	80.	D	104.	D
9.	D	33.	C	57.	C	81.	B	105.	A
10.	B	34.	B	58.	A	82.	D	106.	C
11.	B	35.	C	59.	A	83.	B	107.	A
12.	D	36.	C	60.	A	84.	D	108.	A
13.	B	37.	D	61.	D	85.	C	109.	B
14.	A	38.	D	62.	A	86.	B	110.	B
15.	A	39.	C	63.	B	87.	B	111.	A
16.	C	40.	C	64.	B	88.	D	112.	A
17.	C	41.	D	65.	C	89.	C	113.	C
18.	D	42.	D	66.	A	90.	A	114.	B
19.	A	43.	A	67.	D	91.	D	115.	D
20.	B	44.	A	68.	C	92.	A	116.	D
21.	B	45.	C	69.	B	93.	D	117.	B
22.	B	46.	D	70.	B	94.	C	118.	C
23.	D	47.	C	71.	B	95.	C	119.	C
24.	C	48.	C	72.	A	96.	A	120.	D

